

Chapter 8

Cellular Transport and the Cell Cycle

Reinforcement and Study Guide

Section 8.1 Cellular Transport

In your textbook, read about osmosis: diffusion of water.

Complete the table by checking the correct column for each statement.

Statement	Isotonic Solution	Hypotonic Solution	Hypertonic Solution
1. Causes a cell to swell			
2. Doesn't change the shape of a cell			
3. Causes osmosis			
4. Causes a cell to shrink			

In your textbook, read about passive transport and active transport.

For each item in Column A, write the letter of the matching item in Column B.

Column A

Column B

- | | |
|--|---------------------------------|
| _____ 5. Transport protein that provides a tubelike opening in the plasma membrane through which particles can diffuse | a. energy |
| _____ 6. Is used during active transport but not passive transport | b. facilitated diffusion |
| _____ 7. Process by which a cell takes in material by forming a vacuole around it | c. endocytosis |
| _____ 8. Particle movement from an area of higher concentration to an area of lower concentration | d. passive transport |
| _____ 9. Process by which a cell expels wastes from a vacuole | e. active transport |
| _____ 10. A form of passive transport that uses transport proteins | f. exocytosis |
| _____ 11. Particle movement from an area of lower concentration to an area of higher concentration | g. carrier protein |
| _____ 12. Transport protein that changes shape when a particle binds with it | h. channel protein |